



# **Center for Naval Analyses Support to the Marine Corps Warfighting Lab**

**August 2005**



## **Outline**



- **Who CNA is and how it plugs into the Lab**
- **Activities of CNA analysts and overview of key experiment issues**
  - Tech Division
  - Experiment Division
  - Sea Viking

## What is CNA?



- We are the DoN's Federally Funded Research and Development Center (FFRDC)
- What does being an FFRDC mean?
- Non-profit, private organization
- Not a contractor, and don't compete with them for DoD work
- Stable, long-term relationship with sponsors
- Privileged access to information
- Objective and unbiased

Long history of field work and relationship with MCWL

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## MCWL analysis branch



- Resource pool that is allocated to projects based on need and emerging requirements
- Attempt to focus analysts in specific project areas
  - Tech, Experiment, and Sea Viking Divisions
- Resources
  - 4 CNA analysts
  - Small CNA HQ surge capability
  - ONR intern (Jul05-Aug05)

High-demand, low-density asset

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## What we do for MCWL



- Help structure and design experiments
- Plan for measurement and data collection
- Observe experiments and monitor/assist in data collection
- Describe, document, and analyze results (also consider implications of experiments)
- Provide input to assessment/transition process

Apply scientific reasoning to operational problems

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## Analysis products



- Experiment plans
- Analysis plans
- Initial impression reports and quick-look reports
- Analysis reports
- Analysis memorandum

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## Role of lead analyst



- Primary interface to the command leadership for analytical support
- Analyst assignments
- Document review and quality control
- Administrivia
  - Budget submissions, activity reports, report dissemination, etc.
- Do some analysis occasionally
  - Lead major experiment support

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## Tech Division Support

## What we do for Tech Div



- We help develop, design, and execute Limited Technical Assessments (LTAs)
- Measure performance parameters of developmental item
- LTAs may be conducted in tactical setting, but not focused on TTPs, or how unit mission is impacted

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## Current focus of effort



- Gunfire detection location systems
- Vehicle platforms
- Expeditionary communication systems
- Unmanned systems
- Casualty tracking systems

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## Some key upcoming events

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- **On-the-Move COC LTA**
  - September 2005
- **Expeditionary Tactical Communication System Limited User Evaluation**
  - Through Summer 2006
- **Dragon Fire LTA**
  - October 2005
- **TacMedCS LTAs**

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## Experiment Division Support

## What we do for Exp Div



- Help develop, design, and execute Limited Objective Experiments and Advanced Warfighting Experiments
- LOEs may include LTA-like objectives but focus on TTPs, and assessment of how an innovation impacts combat mission
- LOEs are limited in scope and scale
- AWEs are large-scale culminating experiments that combine numerous innovations

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## Current focus of effort



- **Distributed Operations**
  - Close air support (CAS) experiments
- **Key experiment questions**
  - Can SGTs and below conduct terminal control?
  - What criteria should be used to select terminal controllers?
  - At what level should a terminal control function reside?

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## **Sea Viking Support**

### **What we do for Sea Viking**

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- **Develop and design experiment campaigns**
  - Plan for wargames, studies, LTAs, LOEs, and AWEs
- **Ad hoc analytical support**
- **Define and initiate supporting studies**



## Current focus of effort



- Small Unit Excellence Conference Report
- DO Implementation Working Group
- DO wargame
- Study development
  - Manpower Support to DO Implementation
  - Sustainment of a Company-Sized DO force from a Seabased MAGTF (MEU)

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## Questions?



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